

Mathematics CROSSWALK: Grade Level Expectations for Grades 3-8 to 2007 MLR	CONTINUITY			WHERE is it found? (Standard, PI, Descriptor)	Is it at the same grade span or grade level?	At what level of Bloom's taxonomy is the COGNITIVE DEMAND in the GLEs?	At what level of Bloom's taxonomy is the COGNITIVE DEMAND in the 2007 MLR?		
	Is it in the 2007 standards?	Is the CONCEPT/IDE A the same?	Is the WORDING the same?						
In the coding, PK-2 is represented by (2), 9-D by (9). If no indicator is given the statement is in the standard. If no descriptor(s) is specified then the entire indicator is matched to the expectation. Special attention should be paid to implications of understand. *indicate earlier indicators prerequisite and linked.									
CLUSTER 1. NUMBERS and OPERATION									
Content Standard A: Number and Number Sense: Students will understand and demonstrate a sense of what numbers mean and how they are used. Students will be able to:									
Grade 3									
M1A1.3 Read, write, model, and compare whole numbers using <, >, and = and order numbers up to 9999 and classify numbers as odd or even for numbers up to 9999.	yes	yes	N, 10000	A1(3)	yes	2,3	2,3,4		
M1A2.3 Read, write, model and compare simple fractions with denominators 2,3 and 4	yes	partial, 2007 goes to tenths	no	A3(3)	yes	2,3	2,3,4		
M1A3.3 Demonstrate understanding of the meaning of decimals through hundredths (in money contexts only).	yes	yes	no	A5(4)a	no	2,3	2,3,4		
Grade 4									
M1A1.4 Read, compare, order, classify, and explain whole numbers up to one million.	yes	yes	no, 2007 uses understand	A4(4), A4(5)	no	2,3	2,3,4		
M1A2.4 Read, compare, order, classify, and explain simple fractions through tenths.	yes	yes	no, 2007 uses understand	A3(3)	no	2,3	2,3,4		
M1A3.4 Demonstrate knowledge of the meaning of decimals and integers and an understanding of how they may be used.	yes	yes	no, 2007 uses understand, limits to 0.001, splits decimals and itnegers	A5(4)a, A5(5)a, A6(5)	no	2	2,3,4		

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Grade 5									
M1A1.5 Read, compare, order, use, and represent simple fractions (halves, fourths, fifths, and tenths with all numerators) and decimals to hundredths.	yes	yes	no, "understand" and split	A4(3), A5(4)ad	no	2,3	2,3,4		
M1A3.5 Use divisibility rules for 2, 5 and 10.	partial	partial, rules not specified	no	A2(4)ab	no	3	3		
Grade 6									
M1A1.6 Read, compare, order, use and represent fractions, (halves, thirds, fourths, fifths, sixths, eighths and tenths with all numerators); and compare, order, use and represent decimals to thousandths and convert between decimals and percentages.	yes	yes	no, split across indicators	A4(3), A5(5)ad, A4(6)b	no	2,3	2,3		
M1A3.6 Recognize and apply concepts of prime and composite numbers and use divisibility rules for 2, 3, 4, 5, 6, 9 and 10; and recognize and find factors and multiples of natural numbers.	partial	partial, divisibility rules not explicit	no	A1(6), A2(4)	no	2,3	2,3,4		
Grade 7									
M1A1.7 Read, compare, order, use, and represent fractions, decimals, and percents and convert among different numeral forms (limited to terminating decimals for decimal to fraction conversion) and apply concepts of integers, absolute value and positive exponents.	partial	partial, no emphasis on conversion, no explicit absolute value	no	A2(6), A4(6)b, A1(7)b, A2(7)a, A4(7)a	no	2,3	2,3,4		
M1A3.7 Apply concepts of ratios in practical or other mathematical situations.	yes	yes	no	A4(6)a, A3(7)a	no	3	2,3,4		
Grade 8									
M1A1.8 Use numbers in a variety of equivalent and interchangeable forms (e.g., integer, fraction, decimal, percent, exponential, and scientific notation) in problem-solving.	yes	yes	no	A1(7), A2(7)a, A4(7)a, A1(8)	no	3	2,3,4		
M1A3.8 Apply concepts of ratios, proportions, percents, and number theory (e.g. primes, factors, and multiples) in practical and other mathematical situations.	yes	yes	No, split among many	A1(6), A4(6), A3(7), A4(7),	no	3	2,3,4		
Content Standard B: Computation: Students will understand and demonstrate computation skills (no calculator use for straight computation and numbers used in this section should match those listed for Standard A). Students will be able to do:									

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Grade 3									
M1B1.3 Solve single and multi-step, real-life problems using addition and subtraction with whole numbers with no number greater than 9999 .	partial	Partial no multistep specified in 07	no	A2(3)	yes	3	3		
M1B3.3 Develop proficiency with the facts and algorithms of addition and subtraction on whole numbers using mental math and a variety of materials, strategies, and technologies with no number greater than 9999 .	partial	P, no tech, no variety specified in 07	N	A2(3)	yes	3	2,3,4		
Grade 4									
M1B1.4 Solve multi-step, real-life problems using the four operations with whole numbers.	yes	yes	N	A3(4), A2(5), A3(5)	no	3	2,3		
M1B2.4 Solve real-life problems involving addition and subtraction of simple fractions.	yes	yes	no, problem-solving in "understand"	A4(4)a	yes	3	3		
M1B3.4 Develop proficiency with the facts and algorithms of the four operations on whole numbers using mental math and a variety of materials, strategies, and technologies.	partial	no, methods not specified	no	A2(3), A3(3), A3(4)	no	3	3		
Grade 5									
M1B1.5 Compute and model all four operations on whole numbers (1-digit divisor, 3-digit dividend) and addition and subtraction with simple fractions with common denominators and decimals to hundredths and do straight computation with these numbers and operations.	yes	yes	no, split in 2007	A2(3), A3(4), A4(4)a, A5(4)a	no	3	3,4		
M1B2.5 Create, solve, and justify the solution for multi-step, real-life problems involving all four operations on whole numbers (1-digit divisor, 3-digit dividend) and addition and subtraction with simple fractions with common denominators and decimals to hundredths.	yes	yes	no, problem-solving in "understand", wholes and rationals split	A2(3), A3(4), A4(4)a, A5(4)a, A3(5),	no	3,4	3,4		
Grade 6									
M1B1.6 Compute and model all four operations with whole numbers, common fractions and decimals to thousandths, and do straight computation with these numbers and operations. Division limited to 2-digit whole number divisors and 3-digit dividends.	yes	yes	no, split among indicators, problem solving in "understand"	A2(3), A5(2), A4(5), A5(5)bc, A3(6), A5(6)	no	3	2,3,4		

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M1B2.6 Create, solve, and justify the solution for multi-step, real-life problems with whole numbers, common fractions and decimals to thousandths, with division limited to 2-digit whole number divisors and 3-digit dividends.	yes	no, 2007 does not separate out mixed numbers	no, split among indicators, problem solving in "understand" and in standard	A2(3), A5(2), A4(5), A5(5)bc, A3(6), A5(6)	no	3,4	2,3,4		
Grade 7									
M1B1.7 Compute and model all four operations with whole numbers, fractions (including mixed numerals), decimals, and percents applying order of operations and do straight computation with these numbers and operations.	yes	yes	no, split among indicators, problem solving in "understand" and in standard	A2(3), A5(2), A4(5), A5(5)bc, A3(6), A5(6), A4(7),	no	3	2,3,4		
M1B2.7 Create, solve, and justify the solution for multi-step, real-life problems with whole numbers, fractions (including mixed numerals), decimals, and percents.	yes	yes	no, split among indicators, problem solving in "understand" and in standard	A2(3), A5(2), A4(5), A5(5)bc, A3(6), A5(6), A4(7)	no	3,4	2,3,4		
Grade 8									
M1B1.8 Compute and model all four operations with whole numbers, fractions, decimals, sets of numbers, and percents, applying the proper order of operations.	yes	yes	no, split among indicators, problem solving in "understand" and in standard	A2(3), A5(2), A4(5), A5(5)bc, A3(6), A5(6), A4(7)	no	3	2,3,4		
Note: Includes positive and negative numbers.									
M1B2.8 Create, solve, and justify the solution for multi-step, real-life problems including those with ratio and proportion.	yes	yes	no, split among indicators, problem solving in "understand" and in standard	A2(3), A5(2), A4(5), A5(5)bc, A3(6), A5(6), A3(7), A4(7)	no	3,4	2,3,4		

Content Standard I: Discrete Mathematics: Students will understand and apply concepts in discrete mathematics. Students will be able to:									
Grade 3									
M111.3 Create and use organized lists and Venn diagrams.	no								
Grade 4									
M111.4 Create and use an organized lists, tree diagrams, Venn diagrams and networks.	no								
Grades 5 - 8									
Content Standard I. Discrete Mathematics: There is considerable overlap with other areas and other aspects are more appropriately assessed locally. No Grade Level Expectations in 5-8.									
CLUSTER 2. SHAPE and SIZE									
Content Standard E: Geometry: Students will understand and apply concepts from geometry.									
Grade 3									
M2E1.3 Use properties/ attributes (limited to number of sides, number of angles) to identify, describe, and distinguish between triangles and rectangles and lengths of sides to identify squares as special rectangles.	yes	yes	no	C1(2)b, C1(3)a	no	2	2		
M2E2.3 Identify a line of symmetry for a given shape or answer questions about figures based on lines of symmetry, e.g. "which of the following shapes have one or more lines of symmetry?"	yes	yes	no	C3(4)ab	no	2,3	2,3		
Grade 4									
M2E1.4 Describe, model, and classify shapes and figures using applicable properties.	yes	yes	no	C1(3)acd, C1(4)	no	2,3	2,3		
M2E2.4 Experiment with shapes and figures to make generalizations regarding congruency, symmetry, and similarity.	partial	partial, no generalization in 2007, no similarity at this level - not until 7	no	C3(4), c(3)7	yes	3,4	2,3		

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M2E3.4 Use transformations such as slides, flips, and rotations.	yes	yes	no	C5(5)	yes	3	2,3		
Grade 5									
M2E1.5 Use properties/ attributes (limited to number of sides, number of angles, and length of sides, and lines of symmetry) to classify polygons and draw 2-dimensional shapes.	partial	partial - no classification by symmetry explicitly stated	no, split across indicators	C1(4), C3(4)	no	2,3	2,3		
M2E2.5. Plot non-negative values as points on a number line.	yes	yes	no, positive and negative in 2007	A6(5)a	yes	2	2,3,4		
Grade 6									
M2E1.6 Use properties/ attributes (limited to number of sides, number of angles, and length of sides, lines of symmetry, parallel sides, perpendicular sides, and angles relative to 90°) to classify polygons; and to compare and classify rectangular prisms, including cubes; and triangular prisms and draw 2-dimensional shapes.	partial	partial, no use of symmetry for classification, no explicit compare	no, plit between indicators, no specific limit on solid figures	C1(4), C1(5)	no	2,3,4	2,3		
M2E3.6 Use ordered pairs as coordinates of points in the first quadrant of a coordinate plane.	yes	yes	no, all quadrants in 2007 at once	C4(5)ab	no	2	2,3		
Grade 7									
M2E1.7 Use properties/ attributes limited to number of vertices, number of edges, number of faces, shapes of faces, and types of angles to identify and distinguish among 3 dimensional figures and draw two- dimensional shapes and three-dimensional figures.	yes	yes	no, explicit factors not listed, 2007 includes sketch	C1(4), C1(5), C1(6)bc	no	2,3	2,3		
M2E3.7 Use a coordinate system to define and locate position.	yes	yes	no	C4(5)ab	no	2	2,3		
Grade 8									

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M2E1.8 Compare, classify, and draw two-dimensional shapes and three-dimensional figures.	partial	partial, compare not explicitly stated	no	C1(4), C1(5), C1(6)bc	no	2,3,4	2,3		
M2E2.8 Apply geometric properties to represent and solve real-life problems involving regular and irregular shapes.	yes	yes	no, 2007 includes "determine relationships" in C2(8)	C1(7), C1(8), C2(8)	no	2,3	2,3,4		
M2E3.8 Use a coordinate system to define and locate position.	yes	yes	no	C4(5)ab	no	2	2,3		
Content Standard F: Measurement: Students will understand and demonstrate measurement skills. Students will be able to:									
Grade 3									
M2F1.3 Solve and justify solutions to real-life problems involving the measurement of time, length, and temperature including using a ruler to measure length to the nearest inch and whole centimeter.	yes	yes	no, selection of tol combined in 2007	C2(2)c*, C2(3), B1(3)b	yes	3,6	2,3,4,6		
*Ruler on grade 3,4 & 5 tests									
M2F2.3 Select appropriate tools and units to measure length, time, and temperature	yes	yes	no, selection of tol combined in 2007	C2(3), B1(3)b	yes	2,3	2,3,4, 6		
Grade 4									
M2F1.4 Solve and justify solutions to real-life problems involving the measurement of time, length, area, perimeter, weight, temperature, mass, capacity, and volume.	yes	yes	no	B1(3)b, B1(4)b, B1(5)b; C2(2), C2(3), C2(4), C2(5), C3(5)c	no	3,6	3,6		
M2F2.4- Select measuring tools and units of measurement that are appropriate for what is being measured.	yes	yes	no	B1(3)a, B1(4)a, B1(5)a; C2(2)	no	2	2		
Grade 5									
What was here is combined below.									

M2F2.5 Solve problems involving direct measures of length, distance, elapsed time, temperature, capacity, mass and weight with measures limited to whole numbers (quarters for lengths) including using a ruler to measure length to the nearest quarter inch and whole centimeter.	yes	partial - precision for ruler and whole numbers not stated,	no	B1(5), C2(3)	no	3	2,3,4		
M2F3.5 Find area and perimeter of rectangles with whole numbers (includes formula use) with correct units.	yes	partial, limits to numbers not stated, use of formula not explicit in 2007	no	C2(3), C2(4)	no	3	2,3,4		
Formula sheets as appropriate in all grades.									
Grade 6									
M2F1.6 Perform conversions between inches, feet and yards; seconds, minutes and hours; pounds and ounces; and cups, pints, quarts and gallons.	yes	no, not limited to specifics in 2007	no	B1(6)	yes	3	3		
M2F2.6 Solve problems involving direct measures of length, distance, elapsed time, temperature, capacity, mass and weight.	yes	distance not specified, but it is a length	no	B1(5), C2(3)	no	3	2,3,4		
M2F3.6 Compute the area and perimeter of triangles and rectangles with whole numbers (formula use), and find the volume of rectangular solids using pictures of blocks or gridded diagram with correct units.	yes	yes, but limit to whole numbers not present	no	C2(5),C3(5)a	no	3	2,3,4		
Grade 7									
M2F1.7 Perform conversions between pairs within the following groups: inches, feet, yards, and miles; millimeters, centimeters, meters, and kilometers; cups, pints, quarts, and gallons; milliliters and liters; ounces, pounds and tons; grams and kilograms; seconds, minutes, hours, days, weeks, months, and years.	yes	yes, but list not given	no	B1(6)	no	3	3		
M2F2.7 Solve problems involving unit price, speed and direct measures	yes	yes	no	B1(5), C2(3), B1(8)	no	3	2,3,4		

M2F3.7 Given formulas from which to choose, find areas and perimeters of 2-D shapes (includes circles), and volumes of rectangular solids with rational numbers with correct units.	yes	yes	no	C2(6), C3(5)a,b,c	no	3	2,3,4		
Grade 8									
M2F1.8 Demonstrate the structure and use of systems of measurements.	partial	emphasis on conversion for structure	no	B1(5), B1(6), B2(8)a	no	3	3,4		
M2F2.8 Develop and use concepts that can be measured directly, or indirectly (e.g., the concept of rate).	yes	yes	no	B1(8), B2(8)b	yes	3,5	2,3,4		
M2F3.8 Demonstrate an understanding of length, area, volume, and the corresponding units, square units, and cubic units of measure.	yes	yes	no	C2(3), C2(4), C2(5), C4(9)b	no	2,3	2,3,4		
CLUSTER 3. MATHEMATICAL DECISION MAKING									
Content Standard C: Data Analysis and Statistics: Students will understand and apply concepts of data analysis. Students will be able to:									
Grade 3									
M3C2.3 Read and interpret displays of data: line plots, tables, tally charts, and bar graphs, identifying least frequent, most frequent (mode*), reading, using and comparing values.	partial	partial - no tally charts in 2007	no	B2(3), B2(4)	no	2,3,4	2,3,4		
Grade 4									
M3C2.4 Read and interpret displays of data.	yes	yes, but 2007 includes create that is in K	no	B2(3), B2(4)	no	2, 3	2,3,4		
Grade 5									
M3C1.5 Organize data to find mode, median and range of a set of values.	yes	yes	no	B3(5)	yes	3	3		
Grade 6									

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M3C1.6 Organize data to find modes, medians, means and ranges for sets of data and displays: Data displays include frequency distributions, tables, line plots, or bar graphs (e.g., given a bar graph, determine the mode, median, range and mean).	yes	yes	no	B2(3)*, B2(4)*, C4(6)	yes	3	3		
Grade 7									
M3C1.7 Organize data and analyze patterns and trends in data using modes, medians, means and ranges for sets of data (emphasis on comparing sets begins). Data displays include lists, tables, frequency distributions, line plots, bar graphs or stem and leaf plots.	yes	no, more displays included in 2007	no	B4(6)*, B1(7)	yes	3,4	3,4		
Grade 8									
M3C1.8 Organize and analyze data using mean, median, mode, and range.	yes	yes, but quartiles added in 2007	no	B4(6), B3(8)	no	3,4	3,4		
Content Standard D: Probability: Students will understand and apply concepts of probability. Students will be able to:									
In the following GLEs it is expected that students use area and set models.									
Grade 3									
M3D2.3 Recognize and describe the likelihood of the occurrence of an event or events using “always”, “impossible”, “likely”, “not likely” or “equally likely.”	yes	yes	no	B2(7)a	no	2,3	2,3		
Grade 4									
M3D2.4 Estimate probability from a sample of observed outcomes and simulations.	yes	yes	no	B2(7)b	no	2,3	2,3,4		
Grade 5									
M3D1.5 Find the probabilities of simple events and represent them as fractions (1/2, 1/3, 2/3, 1/4, 2/4, 3/4 eligible).	yes	yes	no	B2(7)b	no	3	2,3,4		
Grade 6									
M3D1.6 Find the probabilities of simple events and represent them as fractions (simplest form not needed).	yes	yes	no	B2(7)b	no	3	2,3,4		
M3D4.6 Find the number of arrangements of 3 factors with no more than 4 choices per factor (e.g., tree diagram, organized list, pictures).	no								
Grade 7									

M3D1.7 Find the probability of simple events and express the probability as a fraction or a percentage (percentages limited to multiples of 10% and 25%).	yes	yes	no	B2(7)	yes	3	2,3,4		
M3D4.7 Apply the idea of permutation in a problem situation with 6 elements or fewer (e.g., how many ways can the four letters in the word "math" be arranged?).	no								
Grade 8									
M3D1.8 Find the probability of simple events and make predictions by applying the theories of probability.	yes	yes	no	B2(7)	no	3	2,3,4		
M3D4.8 Find all possible combinations and arrangements involving a limited number of variables.	partial	similar (used in a context to solve some problems)	no	B4(8)c	yes	3	3		
Content Standard J. Mathematical Reasoning: Due to the difficulty of measuring the Reasoning Indicators independently of other content and the reasoning that is implied in other performance indicators, no indicators from Standard J are included.									
CLUSTER 4. PATTERNS									
Content Standard G: Patterns, Relations, and Functions: Students will understand that mathematics is the science of patterns, relationships, and functions. Students will be able to:									
Grade 3									
M4G1.3 Determine the next term or missing terms in patterns with numbers or shapes.	yes	yes	no, "missing term" not stated, but in create	D4(3)	yes	3, 4	2,3,4		
M4G2.3 Translate real-life situations into addition and subtraction sentences.	yes	yes, but 2007 includes evaluate	no	D1(4)	no	3	2,3,4		
Grade 4									
M4G1.4. Use the patterns of numbers, geometry, and a variety of graphs to solve a problem.	yes	yes	no	D4(3), D3(4), D3(5)	no, graphs in 5	3	3,4		
M4G2.4 Use variables and open sentences to express relationships.	yes	yes	no	D1(4)	yes	3	3		
Grade 5									

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M4G1.5 Translate real-life situations into addition, subtraction, multiplication, or division sentences.	yes	yes	no	D1(5)	yes	3	3		
M4G3.5 Solve problems involving linear patterns in tables, graphs, words or rules using whole numbers.	yes	yes	no, "solve problems" not explicit, replaced with analyze and represent; not explicitly limited to linear in 2007	D3(5)	yes	3	3,4		
Grade 6									
M4G1.6 Translate real-life situations into addition, subtraction, multiplication, and division sentences with whole numbers (mix of operations included).	yes	yes	no, expressions in 2007 and solve with equations include sentences	D1(6)a, D2(6)	yes	2,3	2,3		
M4G3.6 Solve problems involving linear patterns in the form of tables, graphs, words, rules and equations using whole numbers, decimals to hundredths and simple fractions.	yes	yes	no, no explicit limit on number type, but should be similar	D3(6)a	yes	3	3,4		
Grade 7									
M4G1.7 Translate real-life linear situations into equations (limited to one step).	yes	yes	no, no limit on steps, expressions and equations separate, and evaluate in in 2007	D1(7), D2(7)	yes	3	3,4		
M4G3.7 Solve problems involving linear patterns in the form of tables, graphs, words, rules or equations using rational numbers (including signed values).	yes	yes	no	D3(6), D(3)7, D(8)c	no	3	3,4		

Grade 8									
M4G1.8 Describe and represent relationships with tables, graphs, and equations.	yes	no, formulas and diagrams added in 2007	no	D3(6), D3(7), D3(8)	no	3	2,3,4		
M4G3.8 Use patterns and multiple representations to solve problems.	yes	yes	no, patterns not explicit in 2007, but implicit	D3(6), D3(7), D3(8)	no	3	2,3,4		
Content Standard H: Algebra Concepts: Students will understand and apply algebraic concepts. Students will be able to:									
Grade 3									
M4H2.3 Solve for a missing number or find the replacement for a symbol in addition and subtraction sentences using whole numbers.	yes	yes	no	D2(3)	yes	3	3		
Grade 4									
M4H1.4 Develop and evaluate simple formulas in problem-solving contexts.	yes	yes	no	D1(4)	yes	3	3		
M4H2.4 Find replacements for variables that make simple number sentences true.	yes	yes	no	D2(4)	yes	3	3		
Grade 5									
M4H1.6 Evaluate formulas with no more than 2 variables using whole numbers.	yes	yes	no, no limit to 2 variables	D1(5)	yes	3	3		
M4H6.5 Solve one-step equations using addition, subtraction, or multiplication with a variable. Values for variables are limited to whole numbers.	yes	yes	no, examples given	D2(5)	yes	3	3		
Grade 6									
M4H1.6 Evaluate formulas with no more than 3 variables using the computation specified in M1B1.6.	yes	yes	no	D1(6)	yes	3	3		
M4H6.6 Solve one-step equations using whole numbers with all four operations.	yes	yes	no	D2(5)	no	3	3		
Grade 7									

M4H1.7 Evaluate formulas with no more than 3 variables using the computation specified in M1B1.7.	yes	yes	no, signed values included in 2007	D1(6), D1(7)	no	3	3		
M4H4.7 Graph inequality statements on a number line.	yes	yes	no, graph not stated explicitly	D3(8)c	no	3	2,3,4		
M4H6.7 Solve two-step equations using integers and positive rational numbers.	yes	yes	no	D2(7)a	yes	3	2,3		
Grade 8									
M4H1.8 Use concepts of variables and expressions.	yes	yes	no, so broad in M4H1.8 anything could fit here	D1(6), D1(7), D1(8)	no	3	2,3,4		
M4H3.8 Analyze tables and graphs to identify properties and relationships in a practical context.	yes	yes	no	D3(6), D(3)7,D4(8)	no	4	2,3,4,		
M4H4.8 Use graphs to represent two-variable equations.	yes	yes	no	D4(8)C	yes	3	2,3,4		
M4H6.8 Find solutions for unknown quantities in linear equations and in simple equations and inequalities.	yes	yes	no, nonlinear not until 9-D level	D2(7)a, D2(8), D3(8), D(2)9	no	3	2,3,4		
Content Standard K. Communication: Students will reflect upon and clarify their understanding of mathematical ideas and relationships. Students will be able to:									
Grade 3									
M4K1.3 Complete tables, bar graphs and pictographs.	yes	yes	no, line plots, full construct in 2007	B2(2), B2(3), B2(4)	no	3	2,3,4		
Grade 4									
M4K1.4 Use simple tables and graphs to communicate ideas and information in a concise and clear manner.	yes	yes	no	B2(3); B2(4)	no	3	2,3,4		
Grade 5									

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M4K2.5 Read and use statistics, tables, and graphs to communicate ideas and information. Data displays include frequency distributions, tables, line plots, histograms or bar graphs and pie charts/circle graphs (read only).	yes	yes	no	B2(4), B3(5),B3(6)	no	2,3	2,3,4		
Grade 6									
M4K2.6 Read and use statistics, tables, and graphs to communicate ideas and information. Data displays include frequency distributions, tables, line plots, histograms or bar graphs and pie charts/circle graphs (read only).	yes	yes	no	B2(4), B3(5),B3(6)	no	2,3	2,3,4		
Grade 7									
M4K2.7 Read and use statistics, tables, and graphs to communicate ideas and information. Data displays include lists, tables, frequency distributions, line plots, bar graphs, stem and leaf plots or 1 st quadrant scatterplots and line graphs and pie charts/circle graphs (read only).	yes	yes	no, more displays in B1(7), scatterplots considered part of line graphs	B1(7)	yes	2,3,4	2,3,4		
Grade 8									
M4K2.8 Use statistics, tables, and graphs to communicate ideas and information in convincing presentations and analyze presentations of others for bias or deceptive presentation.	partial	no, analyzing for bias and deception mising in 2007	no	B1(7), B3(8)	yes	3,4,5,6	2,3,4		
Standards, Pls, Descriptors NOT found in GLE document									
A1(4)d round numbers									
A1(5)abc to 10 million and rounding									
A2(8)real numbers as rational and irrational									
A5(4) Round decimals									
B1(7) pictograms, box and whisker plots, electronic technologies									
B1(8)quartiles									
B2(7)c probabilities between 0 and 1 inclusive									
B4(8)complementary and mutually exclusive events, simulations, compound probabilities									
C1(6) use of nets									
C3(5) surface area and nets									
C3(6) surface areas and nets									

C3(7) using scale drawings and enlarging and reducing figures									
C3(8) Pythagorean Theorem									
C4(8) Surface area									
C5(6) using scale drawings in measurement									
D1(8)1 manipulate expressions									
D2(7)b convert to $0=ax+b$ form									
D3(5) use of diagrams									
D3(7)c interpret slope and intercept									
D(4)8 use of $y=kx+b$ to this depth									
% increase or decrease # of Standards									
10 to 4 -60%									
% increase or decrease # of Performance Indicators									
105 to 84 -20%									